Approval Package for:

Application Number: 040099

Trade Name: LORTAB 5/325

Generic Name: Hydrocodone Bitartrate and Acetaminophen

Tablets USP 5mg/325mg

Sponsor: UCB Pharma, Inc.

Approval Date: June 25, 1997

APPLICATION 040099

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	Included	Pending	Not	Not
		Completion	Prepared	Required
Approval Letter	X			
Tenative Approval Letter				
Approvable Letter				
Final Printed Labeling	X		100 to 10	
Medical Review(s)			A1	
Chemistry Review(s)	X			
EA/FONSI				
Pharmacology Review(s)				·
Statistical Review(s)				
Microbiology Review(s)	.,			**
Clinical Pharmacology			17 T S	
Biopharmaceutics Review(s)				
Bioequivalence Review(s)	X			
Administrative Document(s)			<u>, , , , , , , , , , , , , , , , , , , </u>	
Correspondence				

Application Number 040099

APPROVAL LETTER

UCB Pharma, Inc.
Attention: Patricia A. Fritz
1950 Lake Park Drive
Smyrna, GA 30080

Dear Madam:

This is in reference to your abbreviated new drug application dated March 14, 1994, submitted pursuant to Section 505(j) of the Federal Food, Drug, and Cosmetic Act, for LORTAB® 5/325 (Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/325 mg).

Reference is also made to your amendment dated January 31, 1996.

We have completed the review of this abbreviated application and have concluded that the drug is safe and effective for use as recommended in the submitted labeling. Accordingly, the application is approved. The drug product, Hydrocodone Bitartrate and Acetaminophen Tablets USP, 5 mg/325 mg (LORTAB® 5/325) can be expected to have the same therapeutic effect as that of the listed drug product upon which the Agency relied as the basis of safety and effectiveness. Your dissolution testing should be incorporated into the stability and quality control program using the same method proposed in your application.

Under 21 CFR 314.70, certain changes in the conditions described in this abbreviated application require an approved supplemental application before the change may be made.

Post-marketing reporting requirements for this abbreviated application are set forth in 21 CFR 314.80-81. The Office of Generic Drugs should be advised of any change in the marketing status of this drug.

We request that you submit, in duplicate, any proposed advertising or promotional copy which you intend to use in your initial advertising or promotional campaigns. Please submit all proposed materials in draft or mock-up form, not final print. Submit both copies together with a copy of the proposed or final printed labeling to the Division of Drug Marketing, Advertising, and Communications (HFD-240). Please do not use Form FD-2253 (Transmittal of Advertisements and Promotional Labeling for Drugs for Human Use) for this initial submission.

We call your attention to 21 CFR 314.81(b)(3) which requires that materials for any subsequent advertising or promotional campaign be submitted to our Division of Drug Marketing, Advertising, and Communications (HFD-240) with a completed Form FD-2253 at the time of their initial use.

Sincerely yours

/S/

6/24/97

Douglas L. Spbrn
Director
Office of Generic Drugs
Center for Drug Evaluation and Research

APPLICATION NUMBER 040099

FINAL PRINTED LABELING



PHARMACIST: Dispense in a tight, light-resistant container with a child-resistant closure. Store at controlled room temperature, 15°-30°C (59°-86°F).

NDC 50474-935-01

100 TABLETS

Lortab*5/325

ACCTAMINOPHEN TABLETS, USP 5 mg/325 mg

Manufactured for UCB Pharma, Inc. Atlanta, GA 30080 by Mikart, Inc. Atlanta, GA 30318

Warning: May be habit forming.

CAUTION: Federal law prohibits dispensing without prescription.

USUAL DOSAGE: See package insert for complete dosage recommendations.





PHARMACIST: Dispense in a tight, light-resistant container with a child-resistant closure.

Store at controlled room temperature, 15°-30°C (59°-86°F).

NDC 50474-935-50

500 TABLETS

Lortab°5/325

USUAL DOSAGE: See package insert for complete dosage recommendations.

HYDROCODONE* BITARTRATE AND **GETAMINOPHEN TABLETS, USP** 5 mg/325 mg

Lot No.: Exp. Date:

*Warning: May be habit forming.

Manufactured for UCB Pharma, Inc. Atlanta, GA 30080 by Mikart, Inc. Atlanta, GA 30318

CAUTION: Federal law prohibits dispensing without prescription. JUN 25 1997



Rev. 5/95 P/N FDA Sub.2

Code 667B50

Accidaningolies: In acetaminophen overdosage: dose-dependent, potentially fatal hepatic necrosis is the most serious adverse effect. Renal ubular necrosis, hypoglycemic coma and thrombocytopenia may also occur.

Early symptoms following a potentially hepatotoxic overdose may include nausea, vomiting, diaphoresis and general malaise. Clinical and tabotatory evidence of hepatic toxicity may not be apparent until 46 to 72 hours post-ingestion.
In adults, hepatic toxicity has rarely been reported with acute overdoses of less than 10 grams, or fatalities with less than 15 grams.

freatment: A single or multiple overdose with hydrocodone and acetaminophen is a potentially tethal polydrug overdose, and consultation with a regional poison control center is recommended.

Immediate trailment includes support of cardionespiratory function and measures to reduce drug absorption. Vomitting should be induced mentantically or with you of peca. If the polatent is acted if dateduse they improprie activate. One activated charcal (19 g/kg) mentantically or withhing. The rest obes should be accompanied by an appropriate calinatic. If repeated does are used, the cathoric window gestire, campling. The rest obes should be accompanied by an appropriate calinatic. If repeated does are used, the cathoric window is accompanied to the cathoric differs supported resources should be seen to remotive the middled A cultical and related tube should be inserted being again. Parage of the unconscious splant and with micro-resource mentantical accounts after the cathoric accounts account to the cathoric account of the cathoric disperse or pertangly hemodalysis may be considered. It hypoprothrombinemia occurs due to accident overloose, vitamin K should be administration.

Natorone, a nacrotic antagonist, can teversa respiratory depression and coma associated with opioid overdose. Natoxone hydrochloride 0.4 mg
10.2 mg is tyen parentarily. Since the dutation of action of hydrocotom may exceed to 10 the nations. The aptient should be kept under
confinituous surveillance and repeated doses of the natiagnosis should be administered as recreet in relativished describe respiration. A natrootic
antiagonist should not be administered in the absence of clinically significant respiratory or cardion, souls, uspression. If the dose of acataminophen may have exceeded 140 mg/kg, acetylcylsiene should be administered as early as possible. Serum acatamino_hen levels should be obtained, since levels and nor of more hours following ingestion help predict acetaminophen toxicity. Do not **ait ace... inophen assay results before initialing treatment. Hepatic enzymes should be obtained initiality, and repeated at 24-hour intervals. Methemoglobinemia over 30% should be treated with methylene blue by slow intravenous administration.

The toxic dose for adults for acetaminophen is 10 g.

DOSAGE AND ASMINISTRATION

Dosage should be adjusted according to severity of pain and response of the patient. However, it should be kept in mind that tolerance to hydrocodone can develop with continued use and that the incidence of untoward effects is dose related. The continued we are that the incidence of untoward effects is dose related. The colar daily dosage is one of two tablets every four to six hours as needed for pain. The total daily dosage should not exceed 8 tablets.

HOW SUPPLIED

Lorda Agist labelet (Hydrocotone Bilantale and Aretaminophen Tablets, USP. 5 mg/325 mg) contain hydrocodone bilantale 5 mg (Wanning, May be habl forming) and extensional to 25 mg (Agist believe) and accessional and extensional and extensional and extensional and extensional and accessed the accessed and accessed whithly/935. In containers of 100 tablets, MDC 90474-835-50, and in containers of 100 tablets, MDC 90474-835-50, and in containers of 100 tablets, MDC 90474-835-50.

Separate 5 lost at container of 100 tablets and 15°-30°C 95°-68°F).

CAUSTION: Edeted law prohibits dispensing without prescription.

A Schedule CIII Narcotic

Manufactured For: UCD PNARMA, INC. Atlanta, GA 30080 Manufactured By: MMKART, INC. Atlanta, GA 20318

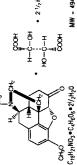
Rev. 1/96 Code 667B00 P/N FDA Sub.2

LORTAB® 5/325 Hydrocodone: bitartrate and acetaminophen tablets, usp (5 mg/325 mg

"Warning: May be habit forming.

DESCRIPTION

Mydrocodone bilaritale is an opioid analgasis and antiussive and occurs as fine, white crystals or as a crys-talline powder. It is affected by light. The chemical name is 4,5α-epoxy-3-methoxy-17-methylmorphinan-6-one fartate (1:1) hydrate (2:5). It has the following structural formula. Hydrocodone bitartrate and acetaminophen is supplied in tablet form for oral administration.



MW = 494.50

Acetaminophen, 4-hydrovyacetamilide, a slightly bitler, while, odorfess, crystalline powder, is a non-opiate, non-salicytate analgesic and antipyretic. It has the following structural formula:

C₈H₉NO₂

. . 5 mg

MW = 151.16

Each Lortab 5/325 tablet contains:

Hydrocodone Bitartrate Warning: May be habit forming

Acetaminophen

. 325 mg

In addition each tablet comains the following linactive ingradients: colloidal silicon dioxide, croscamellose sodium, crospovidone, micro-crystaline cellulose, providone, prepetimized starch, steam acid and sugar spheres which are composed or starch derived from corn, sucrose, and FDAC Vellowe 46.

CLINICAL PHARMACGLOGY

Hydrocodone is a semisynthetic narcotic analgesic and antitussive with multiple actions quality vely similar to those of codeine. Most of these most smooth muscle. The precise mechanism of actic - if hydrocodone and other opiates is not known, although it is believed to relate to the existence of opiate receptors in the central nervous system. In andition to analgesia, narcotics may produce drowsiness, changes in mood and mental clouding.

The analysis action of acetaminophen involves profined influences, but the specific mechanism is as yet undetermined. Antipyretic activity is mediated through hypothelamic hall regulating centers. Acetaminophen inhibits prostaglandin synthetase. Therapeutic noses of acetaminophen inhibits prostaglandin synthetase. Therapeutic noses of acetaminophen hypothelaminophen managingbe effects on the cardiovascular or respiratory systems; however, toxic doses may cause circulatory latture and rapid, shallow breathing.

Pharmacakinetics: The behavior of the individual components is described below

Hiddoodoge: Following a 10 mg oral dose of hydrocodone administered to live adult male subjects, the mean peak concentration was 23 s. 2.2 mg/ml. Maximum serum levels were achieved at 1.3 s. 0.3 hours and the half-life was determined to be 38 s. 0.3 hours. Phytrocodone exhibits a complex pattern of metabolism including 0-demethylation, M-demethylation and 6-keto reduction to the corresponding 6-or- and 6-b-phytroxymetabolites.
6-or- and 6-b-phytroxymetabolites.
6-or- and 6-b-phytroxymetabolites.

Actiamingolitas: Actiam

INDICATIONS AND USAGE

Loriab 5/325 (Hydrocodone Bitaritate and Acetaminophen Tablets, USP, 5 mg/325 mg) are indicated for the relief of moderate to mode.

This product should not be administered to patients who have previously exhibited hypersensitivity to hydrocodone or acetaminophen.

Anames

Respirates

**Persession: At high doses or in sensitive patients, hydrocodone may produce dose-related respiratory depression by acting directly on the bain stem respiratory center. Hydrocodone also affects the controls respiratory in/him, and may produce described to the produce of the prod

eneral: Special Risk Patients: As with any narcolic analgesic agent, Lorda 5/325 tablets should be used with caution in elderly or distinct patients, and those with severa impairment of heatetic or tenal function, hypothyriotism, Addison's disease, posture hypothyriotism and the patients stricture. The usual prezautions should be observed and the postability of resignatory depressions should be kept in mind used postability for respiratory depressions should be seen to read to the patients with pulmonary disease.

used postability has a distinct patients with pulmonary disease.

used postability has a distinct patients with pulmonary disease.

used postability has a distinct stats such as a divining a cair or operating machinery, patients should be cautioned accordingly.

Alcohol and other CNS depressants may produce an additive CNS depression, when taken with this combination product, and should be avoided.

Hydrocodone may be habit-forming. Patients should take the drug only for as long as it is prescribed, in the amounts prescribed, and no more frequently than prescribed.

Laberatory Tests: In palients with severe hepatic or renal disease, effects of therapy should be monitored with serial liver and/or renal function tests.

Preg Interactiones: Patients receiving narcolics, antihistamines, antipsychotics, antianziety agents, or other CNS depressants (including alcohol) concomitantly with hydrocodone bilaritate and acetaminophen tablets may exhibit an additive CNS depression. When combined therapy is contemplated, the dose of one or both agents should be reduced.

The use of MAO inhibitors or tricyclic antidepressants with hydrocodone preparations may increase the effect of either the antidepressant or hydrocodone.

TrepLaberatory Text Interactions: Acetaminophen may produce talse-positive test results for urinary 5-hydrocytic acid.

Text. Integressite, Integrations of Fertility: No adequate studies have been conducted in animals to determine whether hydrocodone or acetaminophen have a potential for carcinopenesis, mutagenesis, or impairment of fertility.

Pregnamer:
Transparie Effects: Pregnamy Category C. There are no adequate and well-controlled studies in pregnam women. Loriab 5/225 tablets should Tearlagenic Effects: Pregnamy only if the potential is useful controlled is to the present of the pregnamy only if the potential is to the present of the pres

Nonteralogenic Effects: Bables born to mothers who have been taking opioids regularly prior to delivery will be physically dependent. The withdrawal signs include irribability and excessive crying, tremoss, involved reflexes, increased respiratory rate, increased stools, sneezing, yawning, vomiting and lever. The intensity of the syndrome does not always correlate with the duration of material opioid use or dose. Their is no consensus on the best method of managing withdrawal.

Labor and Baltrery: As with all narcotics, administration of this product to the mother shortly before delivery may result in some degree of espiratory depression in the newborn, especially if higher doses are used.

Bursing Methers: Acataminophen is excreted in breast milk in small amounts, but the significance of its effects on nursing infants is not known. It is not known whether hydrocodone is excreted in human milk, because many drugs are excreted in human milk and because of the potential for serious adverse reactions in autoring infants from hydrocodone and acataminophen, a decision should be made whether to discontinue nursing or to discontinue the drug, taking into account the importance of the drug to the mother.

Pediatric Beet Safety and effectiveness in pediatric patients have not been established.

The most frequently reported adverse reactions are light-headedness, dizziness, sedation, nausea and vomiting. These effects seem to be more prominent in ambulatory than in non-ambulatory patients, and some of these adverse reactions may be alteriated if the patient lies down.

dysphoria

Other adverse reactions include:

Central Berveas System: Drowsiness, menial clouding, lethargy, impairment of mental and physical performance, anxiety, it psychic dependence, mood changes.

Castrolinestical System: Prolonged administration of Lorab 5/225 labels may produce constitution.

Centralinestical System: Ureleral spasm of vestical sphinisters and urinary retention have been reported with opiates.

Castrolinestical Systems: Ureleral spasm, spasm of vestical sphinisters and urinary retention have been reported with opiates.

Castrolinestical Systems: Hydrocodone bilantiate may produce dose-related respiratory depression by acting directly on brail particular systems. acting directly on brain stem respi

The following adverse drug events may be borne in mind as potential effects of acelaminophen: agranulocytosis. Bermatelegical: Skin rash, pruritus. allergic reactions, rash, thrombocytopenia,

Potential effects of high dosage are listed in the OVERDOSAGE section.

DRUG ABUSE AND DEPENDENCE

Centrelled Substance: Lorab 5/325 tablets (Hydrocodone Bilaritate and Acetaminophen Tablets, USP, 5 mg/325 mg) are classified as a Schedule III controlled substance.

Abuse and Depastance: Psychic dependence, physical dependence, and tolerance may develop upon repeated administration of narcolles, have and population and product should be prescribed and administered with capiton. However, psychic dependence is unlikely to develop when hydrocodone bilaritate and actalaminophen labels are used for a short time for the treatment of pain.

Physical dependence, the condition in which continued administration of the drug is required to prevent the appearance of a withdrawal syn-Physical dependence may develop after a lew days of inactiotic therapy. Tolerance, in which notestingly sainburgh some mild degree of physical continued proportions only after several weeks of continued acrocitic use, although some mild degree of physical continued proportions only after several weeks of continued acrocitic use, although some mild degree of physical continued administration of the degree of physical control of the degree of the degree of physical control of the degree of

Cyfollowing an acute overdosage, toxicity may result from hydrocodone or acetaminophen

Signe and Symptoms:

- Haddoodbage Strious perservose with hydrocodone is characterized by respiratory depression (a decrease in respiratory rate and/or ideal volume, — Haddoodbage Strious perservose with hydrocodone is characterized by respiratory come, skeletal muscle lifectifity, cold and clammy skin.

- Thype-Scholes respiration, cyanosis) extreme sommolence progressing to support or come, skeletal muscle lifectifity, cold and clammy skin.

- Thype-Scholes respiration, cyanosis) extreme sommolence progressing to support or come, skeletal muscle lifectifity, cold and clammy skin.

- Thype-Scholes respiration cyanosis with hydrocodone is characterized by respiratory depression (a decrease in respiratory rate and clammy skin.

- Thype-Scholes respiratory rate and clammy skin.

APPLICATION NUMBER 040099

CHEMISTRY REVIEW(S)

- 1. CHEMISTRY REVIEW NO #3
- 2. ANDA 40-099 (5mg/325 mg)
- 3. NAME AND ADDRESS OF APPLICANT
 UCB Pharma, Inc.
 Attention: Patricia A. Fritz
 1950 Lake Park Drive
 Smyrna, Georgia 30080
- 4. <u>LEGAL BASIS FOR SUBMISSION</u>
 Vicodin Tablets- Knoll Pharmaceuticals
 Expired and no patent information; no exclusivity
 This ANDA was submitted based on an approved ANDA
 suitability petition under 314.93. The petition filed under
 section 505 (J)(2)(c) of the act where the Agency determined
 that the referenced product was suitable for submission as
 an ANDA.
- 5. <u>SUPPLEMENT(s)</u> N/A
- 6. <u>PROPRIETARY NAME</u>
 Lortab 5 mg/325 mg
- 7. <u>NONPROPRIETARY NAME</u>
 Hydrocodone Bitartrate and Acetaminophen Tablets, USP
- 8. <u>SUPPLEMENT(s) PROVIDE(s) FOR:</u> N/A
- 9. AMENDMENTS AND OTHER DATES:

Firm:

March 14, 1994: Original submission.

April 21, 1994: Amendment.

April 22, 1994: Date acceptable for filing.

October 21, 1994: Amendment.

January 31, 1996

FDA:

April 7, 1994: Refuse to file letter. May 19, 1994: Acknowledgement letter. August 17, 1994: Deficiency letter. April 3, 1995: Deficiency letter

10. PHARMACOLOGICAL CATEGORY 11. Rx or OTC Narcotic analgesic Rx

(b)4 - Confidential
Business

13. <u>DOSAGE FORM</u> Tablets

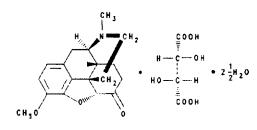
- 14. <u>POTENCY</u> 5 mg/325 mg
- 15. CHEMICAL NAME AND STRUCTURE Acetaminophen USP

$$C_8H_9NO_3$$
; M.W. = 151.16
 CH_3CONH OH
Acetaminophen $C_8H_9NO_2$

4'-Hydroxyacetanilide. CAS [103-90-2]

Hydrocodone Bitartrate USP

 $C_{18}H_{21}NO_3 \cdot C_4H_6O_6 \cdot 2\frac{1}{2}H_2O$



Hydrocodone Bitartrate C..H., NG., C.H.O., 2 H.O

4,5 α -Epoxy-3-methoxy-17-methylmorphinan-6-one tartrate (1:1) hydrate (2:5). CAS [34195-34-1; 6190-38-1]

- 16. RECORDS AND REPORTS N/A
- 17. <u>COMMENTS</u>
 The following deficiencies are found:
 EER to be issued
- 18. CONCLUSIONS AND RECOMMENDATIONS
 The application can be approved. Approval is pending for acceptable EER. The other Mikart applications were approved (ANDA# 81223, 89689, 89697, 89698 and 89699) for the same products in 1987 and 1989.
- 19. REVIEWER: DATE COMPLETED:
 Sema Basaran, Ph.D. 6-13-96
 6-25-96 (Labeling)

APPLICATION NUMBER 040099

BIOEQUIVALENCE REVIEW(S)

Hydrocodone Bitartrate/Acetaminophen
5 mg/325 mg Tablets
ANDA # 40 0000
Reviewer: James Chaney
WP #40099DW.394

Whitby Pharmaceuticals, Inc. Richmond, Virginia Submission Date:
March 8, 1994

Review of Dissolution Data and Waiver Request

The firm has submitted dissolution data in support of a request for a bioequivalence study waiver as provided for under 21 CFR 320.22(c) for its hydrocodone bitartrate/acetaminophen, 5 mg/325 mg tablets (Lortab^R 5/325) manufactured by Mikart, Inc. The listed drug is Vicodin Tablets (hydrocodone bitartrate and acetaminophen tablets, 5 mg/500 mg) manufactured and distributed by Knoll Pharmaceuticals, Inc.

Comments:

- The dissolution method used was correct and satisfactory content uniformity data was submitted for the lot used in the dissolution testing.
- 2. The dissolution testing data demonstrate that the test and reference products meet the dissolution specifications (Table 1). The specifications state that not less than of the labeled amount of hydrocodone bitartrate and not less than (b)4 of the labelled amount of acetaminophen is dissolved in 30 minutes. For both the test and reference products greater than (b)4 of the acetaminophen and greater than (b)4 of the hydrocodone bitartrate are dissolved.
- 3. This ANDA was submitted based on an approved ANDA suitability petition under 314.93. The petition was filed under Section 505 (j)(2)(c) of the Act where the Agency determined that the referenced product was suitable for submission as an ANDA. The petition was approved on June 8, 1987, under Docket Number 87 P-0129/CP. The reason for the petion was a new strength. A copy of the FDA letter to the firm approving the petition is included as Attachment I.
- 4. The reference product, Vicodin Tablets (hydrocodone bitartrate and acetaminophen tablets, 5 mg/500 mg), is classified AA in "Approved Drug Products with Therapeutic Equivalence Evaluations". The test product which differs only in formulation and a smaller amount of acetaminophen would also qualify for an AA rating. Therefore, since the dissolution testing is acceptable there would be no need to conduct an in vivo bioequivalence study.

- 5. The formulation of the test product is given in Table 2.
- 6. The firm did not include %CV's in its dissolution report. The %CV's were calculated by the reviewer. In any future submissions of dissolution data the firm should report these values.

Recommendations:

- The <u>in vitro</u> dissolution testing conducted by Whitby Pharmaceuticals, Inc. on its hydrocodone bitartrate and acetaminophen 5 mg/325 mg tablets is acceptable.
- The Division of Bioequivalence agrees that the information submitted by Whitby Pharmaceuticals, Inc. demonstrates that hydrocodone bitartrate and acetaminophen, 5 mg/325 mg tablets fall under 21 CFR 320.22 (c) of the Bioavailability/Bioequivalence Regulations. The waiver of in vivo bioequivalence study for the test product is granted.
- 3. The dissolution testing should be incorporated into the firm's manufacturing controls and stability program. The dissolution testing should be conducted in 900 ml of pH 5.8 phosphate buffer at 37° using USP XXII apparatus II (paddle) at 50 rpm. The test should meet the following specifications:

Not less than (b)4 of the labeled amount of hydrocodone bitartrate and not less than (b)4 of the labelled amount of acetaminophen is dissolved in 30 minutes.

med of the recommendations and comment 6.

/S/

Dames E. Chaney, Ph.D. Division of Bioequivalence Review Branch I

RD INITIALED ATWU FT INITIALED ATWU

99 XX

cc: Anda 40-099 original, HFD-630, HFD-600 (OGD), HFD-604 (Hare), HFC-130 (Allen), HFD-652 (Wu, Chaney), Drug File

JEC/062194/ntp/WP #40099DW.394

Table 1. In Vitro Dissolution Testing

Drug (Generic Name):

Dose Strength: 5 mg/325 mg ANDA No.: ANDA # 40-099

Firm: Whitby Pharmaceuticals, Inc. Submission Date: March, 8, 1994

File Name: 40099DW.394

P. Pale

I. Conditions for Dissolution Testing:

USP XXII Basket:

Paddle: X RPM: 50

No. Units Tested: 12

Medium: pH 5.8 Phosphate Buffer Volume: 900 ml

Spy Cations: NL(b)4 f the hydrocodone bitartrate in 30 min,

NL b)4 of the acetaminophen in 30 min.

Reference Drug: Vicodin Tablata

Assay Methodology: (b)4 -

II. Results of In Vitro Dissolution Testing:

		A	cetamino	phen			
Sampling Times (Minutes)	Test Product Lot # J93716 Strength(mg) 325			Reference Product Lot # 10760363 Strength(mg) 500			
	Mean %	Pan-a-a	₹CV	Mean %	Range	3cv	
15	97.8	(b)4 -	0.75	82.8		6 06	
30	96.7	onfidentia	3.57	86.9	(b)4 -	5 22	
45	97.3	l a a	1.38	89.3	Confider	<u></u>	
60	95.5	Business	5.27	90.8	Busine		
		Hydı	rocodone	Bitartrate		33 4.12	
Sampling Times (Minutes)	Test Product Lot # J93716 Strength(mg) 5			Reference Product Lot ≠ 10760363 Strength(mg) 5			
	Mean %	Range	%CV	Mean %	Range	%CV	
15	97.5	- (h)4	2.96	96.9			
30	96.0	(b) <u>4</u> -	4.52	100.1	(b) <u>4</u> -		
45	97.2	Confidentia	2.95	99.6	onfiden	ti c. 14	
60	97 .9	Business	3.10	100.6	Busines	SS 1.29	

Table 2.

Formulation of Whitby Pharmaceuticals' Proposed Hydrocodone Bitartrate/Acetaminophen, 5 mg/325 mg Tablets (Lortab 5/325)

Formulation

Component

mg/Tablet

Active Ingredients

(b)4 - Confidential Business Equivalent to 325.0 mg of Acetamiophen USP) *

5.0 (h)4 -

Inactive Ingredients

Microcrystalline Cellulose, NF Croscarmellose Sodium NF Colloidal Sili Sugar Spheres (b)4 - Srearic Acid NF (rowder)

(b)4 -Confidentia Business

Total Tablet Weight

520.0

(b)4 - Confidential Business